



U.S. Department
of Transportation
**Research and
Special Programs
Administration**

400 Seventh St., S.W.
Washington, D.C. 20590

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE NUMBER USA/0662/S, REVISION 1**

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive materials.

1. Source Identification - AEA Technology, QSA Inc. Model X.1275.
2. Source Description - Cylindrical single encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate exterior dimensions are 19.3 mm (0.76 in.) in diameter and 38.9 mm (1.53 in.) in length. Minimum wall thickness is 1.17 mm (0.046 in.). Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA62674, Rev. A.
3. Radioactive Contents - No more than 740.0 GBq (20.0 Ci) of Americium-241. The Am-241 is in the form of an oxide mixed with a Beryllium powder that is pressed into a solid pellet.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations¹ shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires January 31, 2009. On March 31, 2004, this certificate supersedes, in its entirety, all previously issued revisions of USA/0662/S.

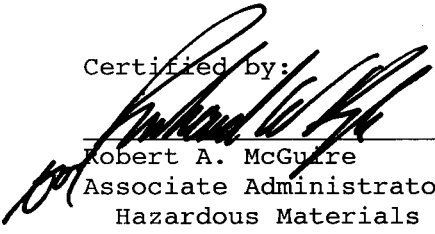
1 "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

2 Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.

CERTIFICATE USA/0662/S, REVISION 1

This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the petition and information dated January 9, 2004 submitted by AEA Technology QSA, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified by:



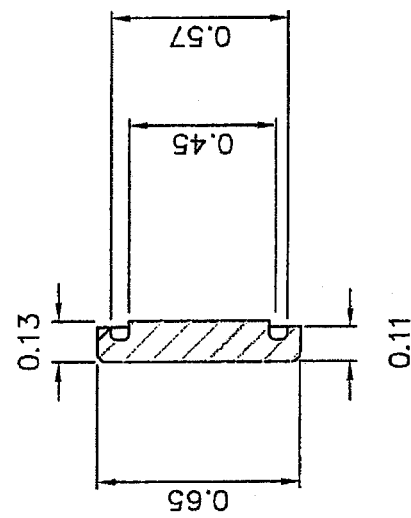
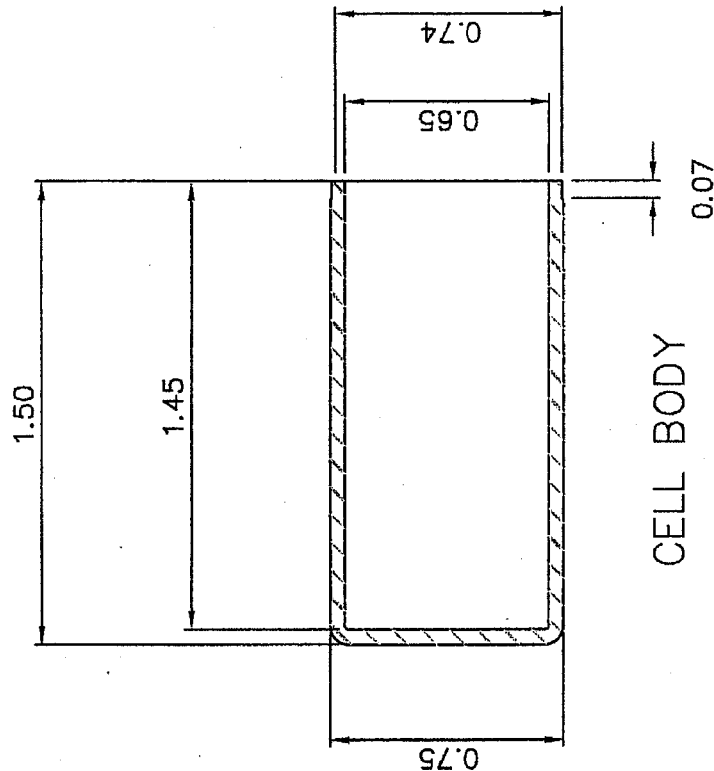
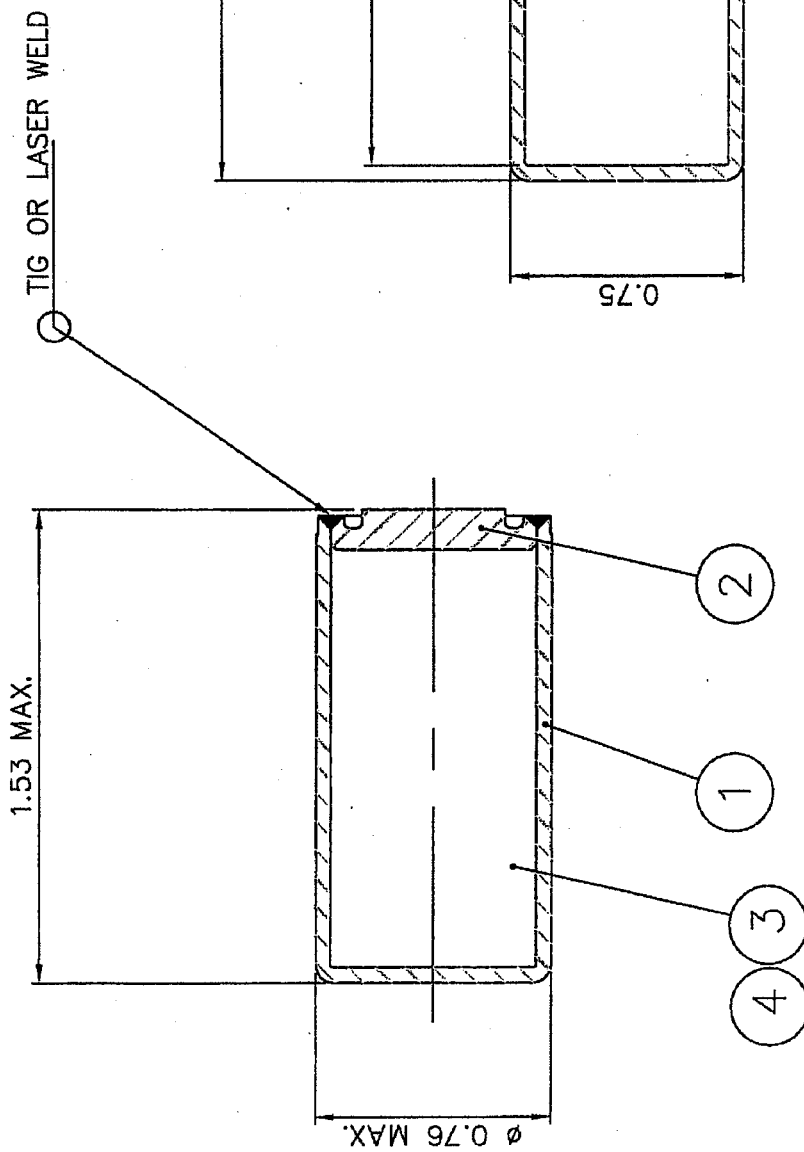
Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety

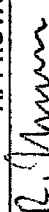


JAN 29 2004

(DATE)

Revision 1 - Issued to reflect wall thickness construction dimensions.

ITEM	DESCRIPTION	QTY
1	CELL BODY STAIN.STL.	1
2	CELL LID STAIN.STL.	1
3	CERAMIC FIBER (OPTIONAL)	A/R
4	ACTIVE MATERIAL	A/R



APPROVALS <div> <div>  18 Nov 03 </div> <div>  18 Nov 03 </div> </div>		DESCRIPTIVE DRAWING  40 NORTH AVE. BURLINGTON, MA 01803	
TITLE X1275 CAPSULE ASSEMBLY		SIZE A	
DESCRIPTIONS IN INCHES FRACTIONS $\pm 1/32$ X ± 0.1 XX ± 0.05 XXX ± 0.005		SCALE: - SHEET 1 OF 1	
DWG. NO. RBA62674		REV A	

ERF # 720		CELL LID	
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